

II. AMENDMENT TO THE CLAIMS

1-20. (Cancel)

21. (Currently Amended) An isolated polypeptide ~~belonging to a subfamily of the Immunoglobulin Superfamily having essentially 100%~~ having 86% sequence homology identity with the amino acid sequence of muCRAM-1, as set forth in SEQ ID NO: 13, ~~or having essentially 100% 90% sequence homology with the amino acid sequence of human huCRAM-1, set forth in SEQ ID NO: 15;~~ wherein the isolated polypeptide exhibits at least one activity selected from the group consisting of inhibition of transendothelial migration of leukocytes and ~~modulation of~~ inhibiting vascular permeability.

22. (New) An isolated polypeptide comprising the amino acid sequence as set forth in SEQ ID NO: 13.

23. (New) An isolated polypeptide comprising the amino acid sequence as set forth in SEQ ID NO: 15.

24. (New) An isolated polypeptide having 90% sequence identity with the amino acid sequence of human huCRAM1 as set forth in SEQ ID NO: 15 wherein the isolated polypeptide exhibits at least one function selected from the group consisting of inhibition of transendothelial migration of leukocytes and inhibiting vascular permeability.

25. (New) An isolated polypeptide encoded by a nucleic acid selected from the group consisting of:

a) a nucleic acid encoding the amino acid sequence as set forth in SEQ ID NO: 13;

b) a nucleic acid, which hybridizes under highly stringent conditions to the complement of the nucleic acid of (a), said highly stringent conditions include a final wash at 67°C in 0.5x SSC and 0.1%SDS

wherein the isolated polypeptide has an activity selected from the group consisting of an ability to promote cell adhesion, cell spreading and/or cell migration, and vascular permeability activity.

26. (New) An isolated polypeptide encoded by a nucleic acid selected from the group consisting of:

a) a nucleic acid encoding the amino acid sequence as set forth in SEQ ID NO: 15; and

b) a nucleic acid, which hybridizes under highly stringent conditions to the complement of the nucleic acid of (a), said highly stringent conditions include a final wash at 67°C in 0.5x SSC and 0.1%SDS

wherein the isolated polypeptide has an activity selected from the group consisting of an ability to promote cell adhesion, cell spreading and/or cell migration, and vascular permeability activity.

27. (New) An isolated polypeptide comprising an amino acid sequence that is 86% identical to the amino acid sequence as set forth in SEQ ID NO: 13 wherein the isolated polypeptide has an activity selected from the group consisting of an ability to promote cell adhesion, cell spreading and/or cell migration, and vascular permeability activity.

28. (New) An isolated polypeptide comprising an amino acid sequence that is 90% identical to the amino acid sequence as set forth in SEQ ID NO: 15 wherein the isolated polypeptide has an activity selected from the group consisting of an ability to promote cell adhesion, cell spreading and/or cell migration, and vascular permeability activity.

29. (New) The isolated polypeptide of claim 25 further comprising amino acids 1-291 of SEQ ID NO: 13 and is capable of inhibiting leukocyte transmigration.

30. (New) The isolated polypeptide of claim 26 further comprising amino acids 1-291 of SEQ ID NO: 15 and is capable of inhibiting leukocyte transmigration.

31. (New) A fusion protein comprising an amino acid sequence selected from the group consisting of:

- a) amino acids 1-291 of SEQ ID NO: 13;
- b) amino acids 1-291 of SEQ ID NO: 15;
- c) amino acid 1 to the amino acid which includes at least a region encoding the single Ig(V) domain; and
- d) amino acid 1 to the amino acid which includes at least a region encoding the two Ig(VC2) domains.

32. The fusion protein of claim 31, further comprising a green fluorescent protein (GFP).

33. The fusion protein of claim 32, further comprising a flag sequence.

34. The fusion protein of claim 31 having the ability to inhibit leukocyte transmigration.